

Appln. No. 09/363,121

Amdt dated June 17, 2003

Reply to Office action of April 9, 2003

REMARKS/ARGUMENTS

Reconsideration and reexamination of the above-referenced application in view of the further remarks set forth below are hereby requested.

The Examiner has rejected of Claims 1 and 2 under 35 U.S.C. §103 as being unpatentable over Tsuneta et al. in view of Jang and Kim. The Examiner states that it would have been obvious to a person of ordinary skill in the art at the time the invention was made to uniformly (wherein, the thickness of the coating at the corners is equal to the thickness of the coating on the vertical and horizontal walls) coat the inner surface of the funnel of Tsuneta et al, which includes the corners as well as vertical and horizontal walls for the purpose of providing the CRT of Tsuneta et al. with an inner conductive film from the electron gun to the screen portion which enables a high voltage to be applied uniformly accross the funnel and accelerates the electron beams from the electron gun to the screen as taught by Jang and Kim.

However, the Applicant's currently amended Claim 1 calls for (underlining added for emphasis) ...wherein the inner graphite layer satisfies the following condition: $0.9 \leq T_d / T_h < 1$ and $1 < T_d / T_h \leq 1.36$ where T_d is an approximate thickness of the inner graphite layer along each rounded inside corner tangentially joining adjacent cone walls of the rectangular cone portion, and T_h is an approximate thickness of the inner graphite layer disposed on inside horizontal walls of the cone portion. Similarly, the Applicant's currently amended Claim 2 calls for (underlining added for emphasis) ... wherein the inner graphite layer satisfies the following condition: $0.9 \leq T_d / T_v < 1$ and $1 < T_d / T_v \leq 1.36$ where T_d is an approximate thickness of the inner graphite layer along each rounded inside corner tangentially joining adjacent cone walls of the rectangular cone portion, and T_v is an approximate thickness of the inner graphite layer disposed on inside vertical walls of the cone portion.

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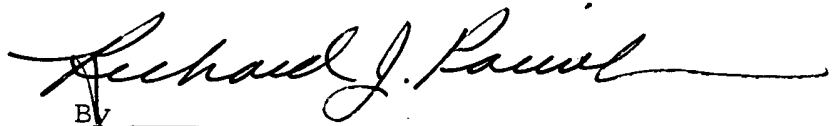
The present invention therefore provides for a specific predetermined optimized thickness ratio range which is both < 1 and ≥ 1 of the layering of graphite over a cathode ray tube rectangular cone's surfaces. Accordingly, the Applicants submit that there is no suggestion to combine the Tsuneta et al., Jang and Kim references and result in the invention with such a specific predetermined thickness ratio range as claimed in either Claim 1 or Claim 2.

The Examiner argues that a person of ordinary skill in the art at the time the invention was made would uniformly coat the inner surface of the funnel, which includes the corners as well as vertical and horizontal walls such that the thickness of the coating at the corners is equal to the thickness of the coating on the vertical and horizontal walls. Such uniformity infers that $T_d/T_h = 1$ and $T_d/T_v = 1$.

However, the Applicant's currently amended claims call for specific predetermined thickness ratios that are not per se = 1. The Applicant submits that the prior art does not describe, teach or suggest the specific predetermined ratio ranges as claimed in Claim 1 or Claim 2, namely: $0.9 \leq T_d / T_h < 1$ and $1 < T_d / T_h \leq 1.36$ and $0.9 \leq T_d / T_v < 1$ and $1 < T_d / T_v \leq 1.36$.

Therefore, in view of the above remarks it is submitted that the claims are patentably distinct over the prior art and that all the rejections to the claims have been overcome. Reconsideration and reexamination of the above Application is requested.

Respectfully submitted,
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